

In the Claims:

1. (currently amended) A flashlight, comprising:

a light source;

5 a housing;

at least two battery locations internal to the housing for the positioning of at least two batteries, each of the battery locations being capable of accommodating one of the at least two batteries, one of the at least two batteries being one of at least two different ~~distinct~~ sizes; and

10 an electro-mechanical structure ~~that prevents a closing of an electrical circuit that electrically couples the at least two batteries to the light source when a first of the at least two batteries and a second of the at least two batteries are of distinct sizes; comprising~~

15 a switch that prevents closing of an electrical circuit that electrically couples the at least two batteries to the light source when the size of a first of the at least two batteries differs from the size of a second of the at least two batteries.

at least two first battery contacts associated with a first one of the at least two battery locations, wherein said at least two first battery contacts lie in substantially the same plane and are mounted on an insulator receptacle that can move  
20 longitudinally inside the housing; and

at least two second battery contacts associated with a second one of the at least two battery locations.

2. (canceled)

3. (canceled)

4. (currently amended) The flashlight of claim 3 ~~1~~, wherein:

a first one of the at least two first battery contacts and a first one of the at least two second battery contacts being positioned to contact a first battery of a first predefined size; and

5 a second one of the at least two first battery contacts and a second one of the at least two second battery contacts being positioned to contact a second battery of a second predefined size.

5. (original) The flashlight of claim 4, wherein the switch further comprises:

a first position that electrically couples the first ones of the at least two first and second battery contacts to the light source; and

5 a second position that electrically couples the second ones of the at least two first and second battery contacts to the light source.

6. (original) The flashlight of claim 5, further comprising:

a third one of the at least two first battery contacts associated with the first one of the at least two battery locations;

5 a third one of the at least two second battery contacts associated with the second one of the at least two battery locations;

the third one of the at least two first battery contacts and the third one of the at least two second battery contacts being positioned to contact a third battery of a third predefined size; and

10 the switch comprises a third position that electrically couples the third ones of the at least two first and second battery contacts to the light source.

7. (original) The flashlight of claim 1, wherein the electro-mechanical structure further comprises a retaining member internal to the housing capable of impinging on the at least two batteries when they are positioned in the at least two battery locations.

8. (original) The flashlight of claim 7, wherein the retaining member comprises a spring that extends between the housing and the at least two battery locations.

9. (original) The flashlight of claim 7, wherein the retaining member comprises a movable arm that pivots about an axis between the housing and the at least two battery locations.

10. (original) The flashlight of claim 1, wherein the electro-mechanical structure comprises a battery tray disposed inside the housing.

11. (original) The flashlight of claim 10, wherein the battery tray can move longitudinally inside the housing and to a position external to the housing.

12. (original) The flashlight of claim 11, wherein the electro-mechanical structure further comprises:

a retaining member internal to the housing capable of impinging on the at least two batteries when they are positioned in the at least two battery locations; and

5 the retaining member can be moved toward and away from the at least two battery locations when the battery tray is moved longitudinally.

13. (canceled)

14. (canceled)

15. (canceled)

16. (currently amended) The flashlight of claim ~~15~~ 1, wherein at least two second battery contacts are each positioned to prevent electrical contact with a battery of a size that differs from a predetermined size associated with each of the at least two second battery contacts, respectively.

17. (original) The flashlight of claim 16, wherein each of the at least two second battery contacts are positioned to prevent contact of a positive terminal of a battery of any size.

18. (currently amended) ~~The flashlight of claim 17, A flashlight,~~  
comprising:  
a light source;  
a housing;  
5 at least two battery locations internal to the housing for the positioning of at  
least two batteries, each of the battery locations being capable of accommodating  
one of the at least two batteries, one of the at least two batteries being one of at least  
two different sizes; and  
an electro-mechanical structure comprising  
10 a switch that prevents closing of an electrical circuit that electrically couples  
the at least two batteries to the light source when the size of a first of the at least two  
batteries differs from the size of a second of the at least two batteries,  
at least two first battery contacts associated with a first one of the at least two  
battery locations; and  
15 at least two second battery contacts associated with a second one of the at  
least two battery locations wherein the at least two second battery contacts are  
mounted on a rear insulator receptacle that has at least two step recesses, and one of  
the at least two second battery contacts is mounted on each of the at least two step  
recesses.

19. (original) The flashlight of claim 18, wherein the rear insulator  
receptacle further comprises a portion of a battery tray inside the housing.

20. (currently amended) The flashlight of claim ~~16~~ 18, wherein the  
switch is a two-pole, three position switch.

21. (currently amended) The flashlight of claim ~~2~~ 1, wherein the electro-  
mechanical device further comprises a battery tray that defines a first battery  
location, a second battery location and a third battery location.

22. (original) The flashlight of claim 21, wherein the battery tray comprises an insulator receptacle disposed between first and second ones of battery locations.

23. (currently amended) ~~The flashlight of claim 22, wherein the flashlight comprises:~~ A flashlight, comprising:

a light source;

a housing;

5 at least two battery locations internal to the housing for the positioning of at least two batteries, each of the battery locations being capable of accommodating one of the at least two batteries, one of the at least two batteries being one of at least two different sizes; and

an electro-mechanical structure comprising

10 a switch that prevents closing of an electrical circuit that electrically couples the at least two batteries to the light source when the size of a first of the at least two batteries differs from the size of a second of the at least two batteries.

a battery tray that defines a first battery location, a second battery location and a third battery location, wherein the battery tray comprises an insulator  
15 receptacle disposed between first and second ones of battery locations,

at least two first battery contacts associated with the first battery locations;

at least two second battery contacts associated with the second battery locations;

at least two third battery contacts associated with the third battery locations;

20 a first one of the at least two first battery contacts, a first one of the at least two second battery contacts, and a first one of the at least two third battery contacts being positioned to contact a first battery of a first predefined size; and

a second one of the at least two first battery contacts, a second one of the at least two second battery contacts, and a second one of the at least two third battery  
25 contacts being positioned to contact a second battery of a second predefined size.

24. (original) The flashlight of claim 23, wherein the switch further comprises:

a first position that electrically couples the first ones of the at least two first and second battery contacts to the light source; and

5 a second position that electrically couples the second ones of the at least two first and second battery contacts to the light source.

25. (canceled)

26. (canceled)

27. (original) The flashlight of claim 1, wherein the electro-mechanical structure further comprises a battery contact electrically coupled to the light source.

28. (currently amended.) ~~The flashlight of claim 27,~~ A flashlight,  
comprising:

a light source;

a housing;

5 at least two battery locations internal to the housing for the positioning of at least two batteries, each of the battery locations being capable of accommodating one of the at least two batteries, one of the at least two batteries being one of at least two different sizes; and

an electro-mechanical structure that prevents a closing of an electrical circuit  
10 that electrically couples the at least two batteries to the light source when a first of the at least two batteries and a second of the at least two batteries are of distinct sizes, wherein the electro-mechanical structure further comprises a battery contact electrically coupled to the light source, and wherein the battery contact is mounted on a moveable insulator receptacle.

29. (original) The flashlight of claim 28, wherein the battery contact is coupled to the light source through a conductive spring.

30. (currently amended) ~~The flashlight of claim 25, wherein:~~ A flashlight, comprising:

a light source;

a housing;

5        at least two battery locations internal to the housing for the positioning of at least two batteries, each of the battery locations being capable of accommodating one of the at least two batteries, one of the at least two batteries being one of at least two different sizes; and

10        an electro-mechanical structure that prevents a closing of an electrical circuit that electrically couples the at least two batteries to the light source when a first of the at least two batteries and a second of the at least two batteries are of distinct sizes,

15        wherein the electro-mechanical structure further comprises at least two leaf springs, each of the at least two leaf springs being associated with a respective one of the battery locations, each of the leaf springs further comprises a conductive leaf spring; one of the conductive leaf springs is coupled to a first battery contact; and a second one of the conductive leaf springs is electrically coupled to the light source.

31. (original) The flashlight of claim 30, wherein the second one of the conductive leaf springs is electrically coupled to the light source through a switch.

32. (currently amended) The flashlight of claim 25 ~~31~~, wherein each of the leaf springs further comprises a conductive leaf spring, and the electromechanical structure further comprises at least two bridge conductors, each of the bridge conductors having a pair of bridge contacts, wherein one of the bridge  
5        conductors electrically couples a first one of the conductive leaf springs with a second one of the conductive leaf springs when an apex of each of the conductive leaf springs is displaced by one of a number of predefined distances.

33. (original) The flashlight of claim 32, wherein each of the predefined distances is associated with the size of a respective one of the at least two batteries.

34. (currently amended) ~~The flashlight of claim 25,~~ A flashlight,  
comprising:

a light source;

a housing;

5 at least two battery locations internal to the housing for the positioning of at least two batteries, each of the battery locations being capable of accommodating one of the at least two batteries, one of the at least two batteries being one of at least two different sizes; and

an electro-mechanical structure that prevents a closing of an electrical circuit  
10 that electrically couples the at least two batteries to the light source when a first of the at least two batteries and a second of the at least two batteries are of distinct sizes,

wherein the electro-mechanical structure further comprises at least two  
conductive leaf springs, each of the at least two leaf springs being associated with a  
15 respective one of the battery locations, wherein each of the at least two conductive leaf springs further comprises a pair of end contacts, wherein a compression of an apex of each conductive leaf spring causes a displacement of one of the end contacts in the common plane with respect to the other of the end contacts.

35. (cancel)

36. (cancel)

37. (cancel)

38. (cancel) .

39. (cancel)

40. (cancel)

41. (cancel)

42. (currently amended) A flashlight, comprising:



a light source;

a housing;

at least two battery locations internal to the housing for the positioning of at  
5 least two batteries, each of the battery locations being capable of accommodating  
one of the at least two batteries, one of the at least two batteries being one of at least  
two distinct sizes;

at least two conductive leaf springs, each of the at least two conductive leaf  
springs being associated with a respective one of the battery locations, wherein an  
10 apex of each of the at least two conductive leaf springs projects into the respective  
one of the battery locations, wherein one of the conductive leaf springs is coupled to  
a first battery contact, and a second one of the conductive leaf springs is electrically  
coupled to the light source; and

at least two bridge conductors, each of the bridge conductors having a pair of  
15 bridge contacts, wherein one of the bridge conductors electrically couples a first one  
of the said conductive leaf springs with a second one of the said conductive leaf  
springs if an when said apex of each of the conductive leaf springs is displaced  
equally by their corresponding batteries that are of equal size, and said bridge  
conductors further preventing a closing of an electrical circuit for said light source  
20 when said apex of each conductive leaf spring is displaced at different distances by  
their corresponding batteries that are of different sizes. ~~by one of the at least two~~  
~~batteries, and the at least two batteries are of the same size, thereby prevents a~~  
~~closing of an electrical circuit that electrically couples the at least two batteries to the~~  
~~light source when a first of the at least two batteries and a second of the at least two~~  
25 ~~batteries are of distinct sizes.~~